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21 An introduction to data warehousing: what are the implications for the network?

Katherine Jones

February 1998 **International Journal of Network Management**, Volume 8 Issue 1Full text available: pdf(145.36 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Data warehousing is an information systems environment, rather than a product. It has emerged as an essential business entity for sophisticated analysis of data. This article presents a clear overview of the implications of data warehousing for business. © 1998 John Wiley & Sons, Ltd.

22 A unifying model for consistent distributed software development environments

J. Walpole, G. S. Blair, J. Malik, J. R. Nicol

January 1989 **Proceedings of the third ACM SIGSOFT/SIGPLAN software engineering symposium on Practical software development environments**, Volume 24 , 13 Issue 2 , 5Full text available: pdf(1.17 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The increase in size and complexity of software projects over recent years has lead to the need for Software Development Environments (SDEs). SDEs are intended to provide assistance in the development of large software systems involving teams of people. It is generally agreed that SDE's should be built on a distributed base. However, the distribution of computer systems introduces several problems which make it very difficult to maintain the consistency of data. ...

23 Augmenting organizational memory: a field study of answer garden

Mark S. Ackerman

July 1998 **ACM Transactions on Information Systems (TOIS)**, Volume 16 Issue 3Full text available: pdf(885.89 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A growing concern for organizations and groups has been to augment their knowledge and expertise. One such augmentation is to provide an organizational memory, some record of the organization's knowledge. However, relatively little is known about how computer systems might enhance organizational, group, or community memory. This article presents Answer Garden, a system for growing organizational memory. The article describes the system and its underlying implementation. It then presents fin ...

Keywords: CSCW, collective memory, community memory, computer-supported cooperative work, field studies, group memory, organizational memory

24 The Desert environment 

Steven P. Reiss

October 1999 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,

Volume 8 Issue 4

Full text available:  pdf(868.64 KB)

Additional Information: full citation, abstract, references, citations, index terms, review

The Desert software engineering environment is a suite of tools developed to enhance programmer productivity through increased tool integration. It introduces an inexpensive form of data integration to provide additional tool capabilities and information sharing among tools, uses a common editor to give high-quality semantic feedback and to integrate different types of software artifacts, and builds virtual files on demand to address specific tasks. All this is done in an open and extensibl ...

Keywords: integrated programming environments, program editors

25 CHIME: customizable hyperlink insertion and maintenance engine for software engineering environments 

P. Devanbu, Y.-F. Chen, E. Gansner, H. Müller, J. Martin

May 1999 **Proceedings of the 21st international conference on Software engineering**

Full text available:  pdf(1.26 MB)

Additional Information: full citation, references, citations, index terms

26 Object mappings in a software engineering project 

Richard M. Casey

January 1999 **ACM SIGSOFT Software Engineering Notes**, Volume 24 Issue 1

Full text available:  pdf(564.24 KB)

Additional Information: full citation, abstract, index terms

In a software engineering project, business objects were mapped directly to software and database objects. There was a natural correlation between objects in real world systems and their representation as software objects and database objects. This mapping may serve as an effective model for similar projects.

Keywords: control point architecture, data models, object oriented analysis and design, project management

27 WWW-UDK: a web-based environmental meta-information system 

Ralf Kramer, Ralf Nicholai, Arne Koschel, Claudia Rolker, Peter Lockemann, Andree Keitel, Rudolf Legat, Konrad Tirm

March 1997 **ACM SIGMOD Record**, Volume 26 Issue 1

Full text available:  pdf(230.86 KB)

Additional Information: full citation, abstract, citations, index terms

The environmental data catalogue *Umweltdatenkatalog* UDK is a standard meta-information system for environmental data for use by state authorities and the public. Technically, the UDK consists of a database together with a front-end tailored to the needs of environmental specialists. FZI's contribution has been to develop a front-end that makes the UDK database available using the tools and techniques of the World-Wide Web. Among the features of WWW-UDK are several query modes for the UDK ...

28 [Image I: Image recognition for digital libraries](#)

Bertrand Le Saux, Giuseppe Amato

October 2004 **Proceedings of the 6th ACM SIGMM international workshop on Multimedia information retrieval**

Full text available:  [pdf\(657.58 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The interpretation of natural scenes, generally so obvious and effortless for humans, still remains a challenge in computer vision. To allow the search of image-based documents in digital libraries, we propose to design classifiers able to annotate images with keywords. First, we propose an image representation appropriate for scene description. Images are segmented into regions, and then indexed according to the presence of given region types. Second, we propound a classification scheme desi ...

Keywords: clustering, feature selection, image classification, image segmentation, kernel-method, scene analysis



29 [Customizing lotus notes to build software engineering tools](#)

Jun Ma, Holger M. Kienle, Piotr Kaminski, Anke Weber, Marin Litoiu

October 2003 **Proceedings of the 2003 conference of the Centre for Advanced Studies on Collaborative research**

Full text available:  [pdf\(337.86 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Many software engineering research tools are stand-alone applications that have trouble interoperating with other development tools and do not fit well into the software developers' established work processes. Our main hypothesis is that in order for new tools to be adopted effectively, they must be compatible with both existing users and existing tools. Typically, software engineering teams in an organization share a set of common applications for their development activities that are a permanen ...

Keywords: Lotus notes, Rigi, collaboration, customization, end-user programmable systems, tool adoption



30 [Software process modeling and execution within virtual environments](#)

John C. Doppke, Dennis Heimbigner, Alexander L. Wolf

January 1998 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 7 Issue 1

Full text available:  [pdf\(232.51 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In the past, multiuser virtual environments have been developed as venues for entertainment and social interaction. Recent research focuses instead on their utility in carrying out work in the real world. This research has identified the importance of a mapping between the real and the virtual that permits the representation of real tasks in the virtual environment. We investigate the use of virtual environments—in particular, MUDs (Multi-User Dimensions)—in the domain of softwa ...

Keywords: MOO, MUD, PROMO, software process, tools, virtual environments



31 [A decision-based configuration process model](#)

T. Rose, M. Jarke

February 1990 **Proceedings of the 12th international conference on Software engineering**

Full text available:  [pdf\(1.39 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



32 GAMS: a framework for the management of scientific software 

Ronald F. Boisvert, Sally E. Howe, David K. Kahaner

December 1985 **ACM Transactions on Mathematical Software (TOMS)**, Volume 11 Issue 4

Full text available:  pdf(2.83 MB)

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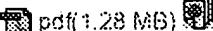
The Guide to Available Mathematical Software (GAMS) provides a framework for both a scientist-end-user and a librarian-maintainer to deal with large quantities of mathematical and statistical software. This framework includes a classification scheme for mathematical and statistical software, a database system to manage information about this software, and both an on-line interactive consulting system and a printed catalog for providing users with access to this information. A description is ...

33 Consistency management for complex applications 

Peri Tarr, Lori A. Clarke

April 1998 **Proceedings of the 20th international conference on Software engineering**

Full text available:



Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

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34 Augmenting the organizational memory: a field study of answer garden 

Mark S. Ackerman

October 1994 **Proceedings of the 1994 ACM conference on Computer supported cooperative work**

Full text available:  pdf(1.21 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A growing concern for organizations and groups has been to augment their knowledge and expertise. One such augmentation is to provide an organizational memory, some record of the organization's knowledge. However, relatively little is known about how computer systems might enhance organizational, group, or community memory. This paper presents findings from a field study of one such organizational memory system, the Answer Garden. The paper discusses the usage data and qualitative ...

Keywords: CSCW, computer-supported cooperative work, corporate memory, group memory, information access, information retrieval, information systems, organizational memory

35 Foundations for the Arcadia environment architecture 

Richard N. Taylor, Frank C. Belz, Lori A. Clarke, Leon Osterweil, Richard W. Selby, Jack C. Wileden, Alexander L. Wolf, Michael Young

November 1988 **Proceedings of the third ACM SIGSOFT/SIGPLAN software engineering symposium on Practical software development environments**, Volume 13, 24 Issue 5 , 2

Full text available:  pdf(2.01 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Early software environments have supported a narrow range of activities (programming environments) or else been restricted to a single "hard-wired" software development process. The Arcadia research project is investigating the construction of software environments that are tightly integrated, yet flexible and extensible enough to support experimentation with alternative software processes and tools. This has led us to view an environment as being composed of tw ...

36 [APPL/A: a language for software process programming](#) 

Stanley M. Sutton, Dennis Heimbigner, Leon J. Osterweil

July 1995 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,

Volume 4 Issue 3

Full text available:  pdf(4.89 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Software process programming is the coding of software processes in executable programming languages. Process programming offers many potential benefits, but their realization has been hampered by a lack of experience in the design and use of process programming languages. APPL/A is a prototype software process programming language developed to help gain this experience. It is intended for the coding of programs to represent and support software processes including process, product, and p ...

Keywords: consistency management, multiparadigm programming languages, software process programming, transaction management

37 [Session 6B: Software reuse: Supporting software maintenance evolution processes in the Adele system](#) 

Noureddine Belkhatir, Walcélio L. Melo, Jacky Estublier, Mohamed A. Nacer

April 1992 **Proceedings of the 30th annual Southeast regional conference**

Full text available:  pdf(507.92 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

One of the major problems encountered when developing large systems is related to maintaining an operational and responsive software system, once it has been accepted and put into production. This problem is referred to as Software maintenance. Evolution is central to Software Maintenance, responsible for ensuring a longer working life. Many Software Engineering Environments (SEEs) have been constructed in order to support maintenance activities. In this paper, we will first present major develo ...

Keywords: CASE, cooperative work, event-condition-action, maintenance, programming in the large, software engineering environment, software process, trigger

38 [NetEffect: a network architecture for large-scale multi-user virtual worlds](#) 

Tapas K. Das, Gurinder Singh, Alex Mitchell, P. Senthil Kumar, Kevin McGee

September 1997 **Proceedings of the ACM symposium on Virtual reality software and technology**

Full text available:  pdf(1.05 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: client-server model, distributed interactive simulation, group dead reckoning, networked Virtual Reality

39 [Consistency management in a project management assistant](#) 

Xiaolei Qian, Richard Jullig, Marilyn Daum

October 1990 **ACM SIGSOFT Software Engineering Notes , Proceedings of the fourth ACM SIGSOFT symposium on Software development environments**, Volume 15 Issue 6

Full text available:  pdf(1.16 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Object management systems have been identified as the core of object-oriented software development environments. One of the most important objectives of object management systems is to maintain consistency between the vast amount of interrelated objects, which

is generated, accessed, and manipulated throughout the software life cycle. Consistency management in such systems is beyond the reach of conventional database technology due to the complex structure and the incompleteness of data, th ...

40 An ad hoc approach to the implementation of polymorphism

R. Morrison, A. Dearle, R. C. H. Connor, A. L. Brown

July 1991 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,

Volume 13 Issue 3

Full text available:  [pdf\(1.95 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)



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13 Dr. Huh has been awarded at **home** and abroad with such recognitions as the ...

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